

**QUICK REFERENCE
DATA**

- $V_R = 1500 - 3000V$
- $I_F = 0.35A$
- $t_{rr} = 250nS$
- $I_R = 0.25\mu A$

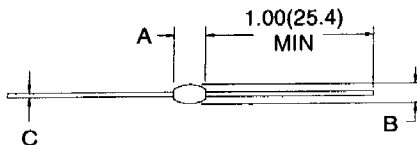
**AXIAL LEADED HERMETICALLY SEALED HIGH
VOLTAGE FAST RECTIFIER DIODE**

- Low reverse recovery time
- High thermal shock resistance
- Hermetically sealed with Metoxilite metal oxide
- Low switching losses
- Soft, non-snap off, recovery characteristics

ABSOLUTE MAXIMUM RATINGS (@ 25°C unless otherwise specified)

	Symbol	F15	F20	F25	F30	Unit
Working reverse voltage	V_{RWM}	1500	2000	2500	3000	V
Repetitive reverse voltage	V_{RRM}	1500	2000	2500	3000	V
Average forward current (@ 55°C in oil)	$I_{F(AV)}$	← 0.35 →				A
Repetitive surge current (@ 55°C)	I_{FRM}	← 1.25 →				A
Non-repetitive surge current ($t_p = 8.3mS$, @ V_R & T_{jmax})	I_{FSM}	← 5.0 →				A
Storage temperature range	T_{STG}	← -65 to +175 →				°C
Operating temperature range	T_{OP}	← -65 to +175 →				°C

MECHANICAL



A	B	C
0.350(8.89) MAX	0.215(5.5) MAX	0.040±0.003 (1.02±0.08)



CHARACTERISTICS (@ 25°C unless otherwise specified)

	Symbol	F15	F20	F25	F30	Unit
Average forward current max. (pcb mounted; T _A = 55°C) for sine wave	I _{F(AV)}	← 0.16 →				A
	I _{F(AV)}	← 0.20 →				A
Average forward current max. (unstirred oil at 55°C) for sine wave	I _{F(AV)}	← 0.33 →				A
	I _{F(AV)}	← 0.35 →				A
I ² t for fusing (t = 8.3mS) max.	I ² t	← 0.10 →				A ² S
Forward voltage drop max. @ I _F = 0.10A, T _j = 25°C	V _F	← 5.00 →				V
Reverse current max. @ V _{RWM} , T _j = 25°C	I _R	← 0.25 →				μA
	I _R	← 10 →				μA
Reverse recovery time max. 50mA I _F to 100mA I _R . Recover to 25mA I _{RR} .	t _{rr}	← 250 →				nS
Junction capacitance typ. @ V _R = 5V, f = 1MHz	C _j	← 2.5 →				pF
Thermal resistance - junction to oil Stirred oil	R _{θJO}	← 30 →				°C/W
	R _{θJO}	← 48 →				°C/W
Thermal resistance - junction to amb. on 0.06" thick pcb. 1oz copper.	R _{θJA}	← 120 →				°C/W

